(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 June 2005 (09.06.2005)

PCT

(10) International Publication Number WO 2005/052066 A2

(51) International Patent Classification7:

C09C

(21) International Application Number:

PCT/US2004/038575

(22) International Filing Date:

18 November 2004 (18.11.2004)

(25) Filing Language:

60/523,672

English

(26) Publication Language:

English

(30) Priority Data:

21 November 2003 (21.11.2003) U

- (71) Applicant (for all designated States except US): IMERYS KAOLIN, INC. [US/US]; 774 Georgia Kaolin Road, Dry Branch, GA 31020 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SARE, Edward, J. [US/US]; 161 Saddle Run Court, Macon, GA 31210 (US). RAPER, Stephen, C. [US/US]; 292 Etowah Drive, Byron, GA 31088 (US).
- (74) Agent: GARRETT, Arthur, S.; Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P., 1300 I Street, N.W., Washington, DC 20005-3315 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RAPID DISPERSING HYDROUS KAOLINS

 $\frac{\text{(cumulative mass at } 0.5 \ \mu\text{m})}{\text{(cumulative mass at 2 } \mu\text{m})} \le 0.5$, and

(57) Abstract: A composition comprising pulverized hydrous kaolins having a particle size distribution meeting the following ratio (I) a median particle size (D_{50}) less than or equal to 2.0 μ m and a composition comprising hydrous kaolins having the particle size distribution, the median

particle size (D₅₀), and certain Hegman dispersion according to the "SSM" V-T Alkyd Hegman Test are disclosed. Also disclosed is a method of preparing a composition comprising inventive hydrous kaolins, as well as a method of increasing the dispersion rate of hydrous kaolins. Products, such as inks, paints, polymer products, rubber products, and coatings, using the inventive hydrous kaolins are also disclosed.

(I)

